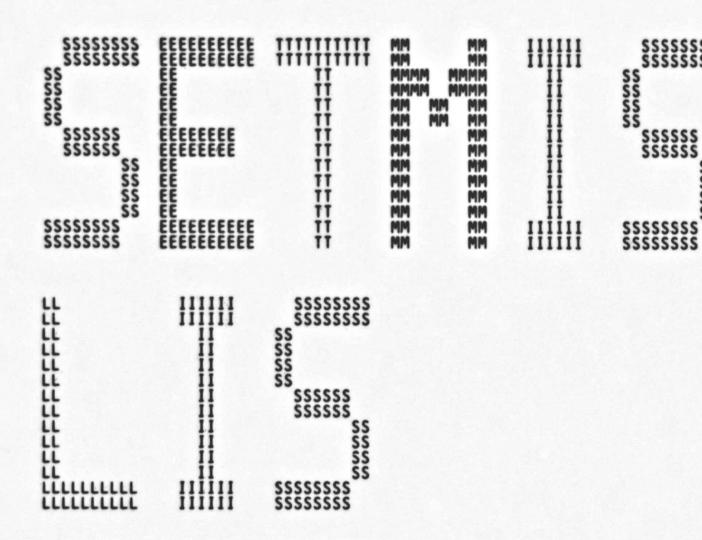


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VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRCJSETMISC.B32;1

Page 1

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MODULE setmisc (IDENT = 'V04-000', ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL=LONG_RELATIVE)

BEGIN

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FACILITY: SETPRO Command

ABSTRACT:

This module sets various parameters in the system.

ENVIRONMENT:

VAX/VMS operating system. Privileged user mode.

AUTHOR: Gerry Smith

12-Jan-1983

Modified by:

V03-010 AEW0001 Anne E. Warner 24-Jul-1984
Add a check to see if the qualifier is present before getting the value to the following qualifiers:

/INTERACTIVE in SET\$LOGINS

/BLOCK_COUNT in SET\$RMS_DEFAULT

/BUFFER_COUNT in SET\$RMS_DEFAULT

/PROLOGUE in SET\$RMS_DEFAULT

/EXTEND_QUANTITY in SET\$RMS_DEFAULT

/NETWORK_BLOCK_COUNT in SET\$RMS_DEFAULT

This check is insure correct behavior with negated qualifiers

V03-009 DAS0001 David Solomon 09-Jul-1984 fix truncation errors; make nonexternal refs LONG_RELATIVE.

SETMISC VO4-000	M 10 16-Sep-1984 00:43:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:11 [CLIUTL.SRC]SETMISC.B32;1
58 0058 1 ! 59 0059 1 ! 60 0060 1 !	V03-008 RAS0281 Ron Schaefer 27-Mar-1984 . Add Network Block Count to SET/RMS command.
58 0058 1 60 0059 1 60 0060 1 61 0061 1 62 0062 1 63 0063 1 64 0064 1 65 0065 1 66 0066 1 67 0067 1	V03-007 MCN0155 Maria del C. Nasr 01-Mar-1984 The disallow flag offset in the PCB is from the beginning of the structure, and not a status flag. This will fix the behavior of the /ADJUST qualifier.
	V03-006 GAS0172 Gerry Smith 25-Aug-1983 When enabling logins, use a symbolic, UCB\$V_TT_NOLOGINS, instead of dead-reckoning.
71 0070 1 72 0072 1 73 0073 1	V03-005 GAS0158 Gerry Smith 25-Jul-1983 For SET LOGIN/INTER=0, do not disable the creation of interactive jobs.
68 0068 1	V03-004 GAS0134 Gerry Smith 17-May-1983 For SET WORKING_SET, use twice the number of fluid pages, rather than one.
80 0080 1 !	V03-003 GAS0112 Gerry Smith 29-Mar-1983 Remove all references to the old CLI interface.
81 0081 1 82 0082 1 83 0083 1 84 0084 1 85 0085 1 86 0086 1 87 0087 1	V03-002 GAS0111 Gerry Smith 9-Mar-1983 Fix the output of SET LOGIN. Also calculate a better minimum working set to use as a limit in SET WORKING_SET.
86 0086 1 87 0087 1 88 0088 1 89 0089 1 90 0090 1 91 0091 1	V03-001 GAS0110 Gerry Smith 28-Feb-1983 Fix a couple of bugs with SET RMS and SET WORKING_SET, caused by incorrectly computing the new RMS limit, and the new working set parameters.

```
N 10
16-Sep-1984 00:43:54
14-Sep-1984 12:09:11
 SETMISC
VO4-000
                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRCJSETMISC.B32;1
       Include files
                                                     LIBRARY 'SYS$LIBRARY:LIB';
                                                                                                                                              ! VAX/VMS common definitions
                                                         Define the bit offsets for the SET DAY qualifier flags byte.
                                                     MACRO
                                                              set$v_primary =
set$v_secondary =
set$v_default =
                                                                                                     000
                                                         Define the bits for the SET RMS command
                                                     MACRO
                                                             set$v_system = 0, 2,
set$v_block = 0, 3,
set$v_buffer = 0, 4,
set$v_prolog = 0, 5,
set$v_disk = 0, 6,
set$v_tape = 0, 7,
set$v_unit = 0, 8,
set$v_seq = 0, 9,
set$v_rel = 0,10,
set$v_index = 0,11,
set$v_hash = 0,12,
set$v_extend = 0,13,
set$v_netblk = 0,14,
                                                             set$v_system
set$v_block
set$v_buffer
set$v_prolog
set$v_disk
set$v_tape
set$v_unit
set$v_seq
set$v_rel
set$v_index
set$v_hash
set$v_extend
                                                                                                                                                                   /SYSTEM
                                                                                                                   OX...
                                                                                                                                                                   Block count specified
Buffer count specified
Prologue level specified
                                                                                                            /DISK
                                                                                                                                                                   /MAGTAPE
/UNIT_RECORD
/SEQUENTIAL
/RELATIVE
/INDEXED
                                                                                                                                                                  /HASHED (maybe someday)
/EXTEND QUANTITY
/NETWORK Block Count
                                                         Define some bits for the SET WORKING_SET command
                                                     MACRO
                                                             set$v_log =
set$v_explog =
set$v_limit =
set$v_quota =
set$v_extent =
set$v_expadj =
set$v_adjust =
                                                                                                                                                                   /[NO]LOG set explicitly
                                                                                              0000000
                                                                                                                   0x.
0x.
0x.
0x.
                                                                                                            1:
                                                                                                                                                                   /LIMIT
                                                                                                                                                                   /QUOTA
                                                                                                                                                                  /EXTENT
/[NO]ADJUST set explicitly
/[NO]ADJUST
                                                          Declare some shared messages
                                                                                         (SET,119,LOCAL,
(confqual,
(inyquaval,
                                                     $SHR_MSGDEF
                                                                                                                            error),
                                                                                                                            error);
                                                                                         (valerr,
```

(2)

```
B 11
16-Sep-1984 00:43:54
14-Sep-1984 12:09:11
SETMISC
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETMISC.B32;1
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                                                                          0014478901523456789010166678901777890188345678901997
                                                                                                                        Table of contents
                                                                                                               FORWARD ROUTINE
                                                                                                                                 set$day : NOVALUE, setdaykni,
                                                                                                                                                                                                                                                                                                                  Set the day primary or secondary
Kernel mode routine to set the day
                                                                                                                                                                                                                                                                                                                Set the number of interactive users
Kernel mode routine to set logins
Set the various RMS defaults
Kernel mode routine to set RMS
Set the working set parameters
Kernel mode routine to set working set
                                                                                                                                  set$login : NOVALUE,
                                                                                                                                 setlogkni,
set$rms_default : NOVALUE,
setrmskni,
                                                                                                                                  set$working_set : NOVALUE,
                                                                                                                                  setwrkknl;
                                                                                                                        External routines
                                                                                                               EXTERNAL ROUTINE
                                                                                                                                                                                                                                                                                                           ! Convert ASCII to binary
                                                                                                                                                                                                                                                                                                          ! Get value from CLI
! See if qualifier is present
                                                                                                                                  clisget_value,
                                                                                                                                  clispresent:
                                                                                                                        External references
                                                                                                            EXTERNAL

exe$gl_flags : $BBLOCK,

ctl$gl_pcb,

ctl$gl_phd,

ctl$gq_procpriv : $BBLOCK,

sys$gl_jobctlmb : $BBLOCK,

sys$gw_ijobcnt : WORD,

sys$gw_ijoblim : WORD,
                                                                                                                                                                                                                                                                     ! The general system flagword ! Address of this process's PCB
                                                                                                                                                                                                                                                                                                                  Process-mapped PHD
                                                                                                                                                                                                                                                                                                                  Process privilege mask
                                                                                                                                                                                                                                                                                                                   Job controller mailbox
                                                                                                                                                                                                                                                                                                                 Number of current interactive jobs Interactive job limit Multiblock counts
                                                                                                                                 sys$gb_dfmbc : BYTE,
pio$gb_dfmbc : BYTE,
sys$gb_dfnbc : BYTE,
pio$gb_dfnbc : BYTE,
                                                                                                                                                                                                                                                                                                                   (system)
                                                                                                                                                                                                                                                                                                                   (process)
                                                                                                                                                                                                                                                                                                                    (system) Network
                                                                                                                                                                                                                                                                                                                    (process)
                                                                                                                                                                                                                                                                                                                  Prologue levels
                                                                                                                                 sys$gb_rmsprolog : BYTE,
pio$gb_rmsprolog : BYTE,
                                                                                                                                                                                                                                                                                                                   (system)
                                                                                                                                                                                                                                                                                                                    (process)
                                                                                                                                                                                                                                                                                                                  Default extend quantities
                                                                                                                                  sys$gw_rmsextend : WORD,
                                                                                                                                                                                                                                                                                                                   (system)
                                                                                                                                                                                                                                                                                                                  (process)
Multibuffer counts
                                                                                                                                  piosgw_rmsextend : WORD,
                                                                                                                               sys$gb_dfmbfsdk : BYTE,
sys$gb_dfmbfsmt : BYTE,
sys$gb_dfmbfsur : BYTE,
sys$gb_dfmbfsur : BYTE,
sys$gb_dfmbfidx : BYTE,
sys$gb_dfmbfhsh : BYTE,
pio$gb_dfmbfsdk : BYTE,
pio$gb_dfmbfsmt : BYTE,
pio$gb_dfmbfsur : BYTE,
pio$gb_dfmbfidx : BYTE,
pio$gb_dfmbfhsh : BYTE,
pio$gb_dfmbfhsh : BYTE,
pio$gb_dfmbfhsh : BYTE,
                                                                                                                                                                                                                                                                                                                 Disk (system)
Tape (system)
Unit_record (system)
Indexed files (system)
Hashed files (system)
Relative files (system)
                                                                                                                                                                                                                                                                                                                Disk (process)
Tape (process)
Unit_record (process)
Indexed files (process)
Hashed files (process)
Relative files (process)
                                                                          0198
0199
```

SETMISC V04-000			C 11 16-Sep-1984 00:43:54 14-Sep-1984 12:09:11	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1
202 203 204 205 206 207 208 209 210 211	0200 0201 0202 0203 0204 0205 0206 0207 0208 0209 0210	Declare literals defined elsewhere EXTERNAL LITERAL exe\$v_explicitp, exe\$v_explicits, cli\$_absent, set\$_newlims, set\$_intset;	! Flags to show whether ! secondary or primary ! CLI flag saying qual! ! Informational message ! Informational message	the day is ifier absent for SET WORKING_SET for SET LOGIN

```
D 11
16-Sep-1984 00:43:54
14-Sep-1984 12:09:11
SETMISC
VO4-000
                                                                                                                                             VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1
                                      GLOBAL ROUTINE set$day : NOVALUE = BEGIN !++
     0212
0213
0214
0215
0216
0217
functional description
                                                   This is the routine for the SET DAY command. It is called from the SET command processor, and sets the day to be either primary or secondary, or sets it back to its default.
                                          Inputs
                                                    None
                                          Outputs
                                                    None
                                       LOCAL
                                             status,
argist : VECTOR[2],
flags : $BBLOCK[1]
                                                                                                          Status return
Argument list for $CMKRNL
                                                                                                          flags byte,
                                                                                                         originally zero
                                                          INITIAL (BYTE (0));
                                         find out what the day is supposed to be set to.
                                       flags[set$v_secondary] = cli$present(%ASCID 'SECONDARY');
flags[set$v_primary] = cli$present(%ASCID 'PRIMARY');
flags[set$v_default] = cli$present(%ASCID 'DEFAULT');
                                          See if the user has the OPER privilege. If not, signal an error.
                                       IF NOT .ctl$gg_procpriv[prv$v_oper]
THEN SIGNAL_STOP(ss$_nooper);
                                                                                                                   ! User must have OPER priv.
                                          Change mode to kernel and set the day.
                                      arglst[0] = 1;
arglst[1] = flags;
IF NOT (status = $CMKRNL(ROUTIN = setdayknl,
                                                                               ARGLST = arg(st))
                                       THEN SIGNAL_STOP(.status);
                                       RETURN 1;
                                      END:
                                                                                                                       .TITLE
                                                                                                                                   SETMISC
\V04-000\
                                                                                                                       .PSECT
                                                                                                                                  $PLIT$, NOWRT, NOEXE, 2
                                                                                010E0009
00000000
                                                                                                00000 P.AAB:
00000 P.AAA:
                                                                                                                                   \SECONDARY\<0><0><0>
17694729
```

4E

.ASCII

ADDRESS P. AAB

SETMISC V04-000	E 11 16-Sep- 14-Sep-	1984 00:43:54 VAX-11 Bliss-32 V4.0-742 1984 12:09:11 [CLIUTL.SRCJSETMISC.B32:1	Page 7
	00 59 52 41 4D 49 52 50 00014 P.AAD 010E0007 0001C P.AAC 000000000 00020 00 54 4C 55 41 46 45 44 00024 P.AAF	: .ASCII \PRIMARY\<0> : .LONG 17694727 .ADDRESS P.AAD	•
	00 59 52 41 4D 49 52 50 00014 P.AAD 010E0007 0001C P.AAC 000000000 00020 00 54 4C 55 41 46 45 44 00024 P.AAF 010E0007 0002C P.AAE	: .ASCII \DEFAULT\ <u> : .LONG 17694727</u>	
		EXTRN LIBSCYT DTB, CLISGET VALUE EXTRN CLISPRESENT, EXESGL FLAGS EXTRN CTLSGL PCB, CTLSGL PHD EXTRN CTLSGQ PROCPRIV EXTRN SYSSGL JOBCTLMB EXTRN SYSSGW IJOBCNT, SYSSGW IJOBLIM EXTRN SYSSGB DFMBC, PIOSGB DFMBC EXTRN SYSSGB DFMBC, PIOSGB DFMBC EXTRN SYSSGB PMBC, PIOSGB DFMBC EXTRN SYSSGB PMBC, PIOSGB DFMBC EXTRN SYSSGB PMBC EXTRN PIOSGB PMSPROLOG EXTRN PIOSGB PMSEXTEND EXTRN SYSSGB DFMBFSDK EXTRN SYSSGB DFMBFSDK EXTRN SYSSGB DFMBFSDK EXTRN SYSSGB DFMBFSDR EXTRN SYSSGB DFMBFSDR EXTRN SYSSGB DFMBFSDR EXTRN SYSSGB DFMBFSDR EXTRN PIOSGB DFMBFFSUR EXTRN PIOSGB DFMBFFSUR EXTRN PIOSGB DFMBFFSUR EXTRN PIOSGB DFMBFFBL EXTRN PIOSGB DFMBFFBL EXTRN PIOSGB DFMBFFBL EXTRN PIOSGB DFMBFREL EXTRN SETS NEWLIMS EXTRN SETS INTSET, SYSSCMKRNL	
		Trocer scopes, Hount, JE	
	01 02 00 00 00 00 00 00 00 00 00 00 00 00	.ENTRY SET\$DAY, Save R2,R3,R4 MOVAB LIB\$STOP, R4 MOVAB P.AAA, R3 MOVAB CLI\$PRESENT, R2 SUBL2 #12, SP CLRB FLAGS PUSHL R3 CALLS #1, CLI\$PRESENT INSV R0, #3, #1, FLAGS PUSHAB P.AAC CALLS #1, CLI\$PRESENT INSV R0, #2, #1, FLAGS PUSHAB P.AAE CALLS #1, CLI\$PRESENT INSV R0, #2, #1, FLAGS PUSHAB P.AAE CALLS #1, CLI\$PRESENT INSV R0, #4, #1, FLAGS BBS #2, CTL\$GQ_PROCPRIV+2, 1\$	0211
6E	01 62 01 FB 0001E 01 03 50 F0 00021	PUSHL R3 CALLS #1, CLISPRESENT	0212 0237
	10 A3 9F 00026 62 01 FB 00029 01 02 50 F0 0002C	PUSHAB P.AAC CALLS #1, CLISPRESENT	0238
6E	01 02 50 F0 0002C 20 A3 9F 00031 62 01 FB 00034	INSV RO. #2, #1, FLAGS PUSHAB P.AAE CALLS #1. CLISPRESENT	0239
6E	01 04 04 50 F0 00031 08 000000006 00 02 E0 0003C 7E 2894 8F 3C 00044 64 01 FB 00049 04 AE 01 D0 0004C 1\$:	CALLS #1, CLISPRESENT INSV RO, #3, #1, FLAGS PUSHAB P.AAC CALLS #1, CLISPRESENT INSV RO, #2, #1, FLAGS PUSHAB P.AAE CALLS #1, CLISPRESENT INSV RO, #4, #1, FLAGS BBS #2, CTLSGQ PROCPRIV+2, 1S MOVZWL #10388, -(SP) CALLS #1, LIBSSTOP MOVL #1, ARGLST	0244 0245 0250

SETMISC VO4-000			f 11 16-Ser 14-Ser	0-1984 00:43:54 VAX-11 Bliss-32 V4.0-742 0-1984 12:09:11 [CLIUTL.SRC]SETMISC.B32:1	Page 8
	08 0000000G	AE 000000000V 05 64	6E 9E 00050 AE 9F 00054 EF 9F 00057 02 FB 0005D 50 E8 00064 50 DD 00067 01 FB 00069	MOVAB FLAGS, ARGLST+4 PUSHAB ARGLST PUSHAB SETDAYKNL CALLS #2, SYS\$CMKRNL BLBS STATUS, 2\$ PUSHL STATUS CALLS #1, LIB\$STOP RET	0251 0253 0254

; Routine Size: 109 bytes, Routine Base: \$CODE\$ + 0000

(5)

SETMISC VO4-000						H 11 16-Sep- 14-Sep-	1984 00:4 1984 12:0	3:54 9:11	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1	Page 10 (5)
			F7 00000000			00000 SETDA	. WORD	Save	R2,R3	; 0258
	06 0B	04	53 00000000G 52 00000000G BC 62	00 02 53	9E E1 E5	00002 00009 00010 00015	MOVL MOVAB BBC BBCC	#EXES #2, a R3, E	R2,R3 SV_EXPLICITP, R3 SL_FLAGS, R2 OF[AGS, 18 EXE\$GL_FLAGS, 2\$	0279 0282
	0E 00 0B	04	BC 62 62 000000006	09 03 53 8F	E1 E2 E2	00019 00018 1\$: 00020 00024 2\$:	BRB BBC BBSS BBSS	23	FLAGS, 3\$ EXESGL_FLAGS, 2\$ EV_EXPCICITS, EXESGL_FLAGS, 4\$: 0283 : 0291 : 0294 : 0295
	04	04	BC 62 50	09 04 53 01	E1 E5 D0 04	0002C 0002E 3\$: 00033 00037 4\$:	MOVL MOVAB BBC BBC BBSS BBSS BBSS BRB BBC BBCC MOVL RET	45	FLAGS, 4\$ XE\$GL_FLAGS, 4\$	0279 0282 0283 0291 0294 0295 0303 0304 0308

; Routine Size: 59 bytes, Routine Base: \$CODE\$ + 006D

```
GLOBAL ROUTINE set$login : NOVALUE =
            This routine sets the number of interactive logins permitted.
            Inputs:
                   None. The CLI is interrogated for the number.
            Outputs:
                   None.
          LOCAL
                                                             General status return
Number of users
Argument list for $CMKRNL call
              status,
              number,
              arglst : VECTOR[2],
desc : $BBLOCK[dsc$c_s_bln];
                                                             Descriptor to get number
            If the user doesn't have OPER, don't allow the operation.
          If NOT .ctl$gg_procpriv[prv$v_oper]
THEN SIGNAL_STOP(ss$_nooper);
            Get the number of users.
         $init_dyndesc(desc):
If cli$present(%ASCID 'INTERACTIVE')
                                                           ! Make the descriptor dynamic
              clisget_value(%ASCID 'INTERACTIVE', ! Get the number
                               desc):
            If the number is non-zero, go set it.
         IF .desc[dsc$w_length] NEQ 0
THEN
              number))
              THEN
                   BEGIN
SIGNAL(set$_valerr);
0358
0359
0360
0361
0362
0363
0364
0365
0366
                   RETURN:
              END;

argist[0] = 1;

argist[1] = .number;

IF NOT (status = $CMKRNL(ROUTIN = setlogknl,
                                             ARGLST = arg(st))
               THEN
                   BEGIN
```

SETMISC V04-000 : 372 : 373 : 374 : 375 : 376 : 378 : 379 : 380 : 381 : 382 : 383		036 036 037 037 037 037 037	789012545678	SIG		get	th	is f		then			AL to	output	984 00:43 984 12:09 the curre	ent in	VAX-11 Bliss-32 v4.0-742 [CLIUTL.SRC]SETMISC.B32;1	Page	(6)
	00	45	56 56	49	54 54	43 43	41	52		54 0 54 0	4E 10E00 00000 4E 10E00	49 008 000 49 008	00034 00040 00044 00048 00054 00058	P.AAH: P.AAG: P.AAJ: P.AAI:	.PSECT .ASCII .LONG .ADDRES .ASCII .LONG .ADDRES	\INT 1769 SS P.A \INT 1769	AH ERACTIVE\<0> 4731		
				OC	000	00000	06 06 06	5E 07E 00 10 00 7E 0528 AE AE	00000 00000 00000	000 000 04 000 04 000	0142F1FEF100EF2E2EE8302F01E	009CE3CB004FB9FB9FB9FB0005FB009FFB	00002	1\$: 2\$:	PSECT ENTRY MOVAB SUBL2 BBS MOVZWL CALLS MOVL CLRL PUSHAB CALLS BLBC PUSHAB CALLS TSTW BEQL PUSHL MOVZWL CALLS MOVZWL CALLS MOVZWL CALLS MOVL PUSHAB PUSHAB CALLS MOVL PUSHAB CALLS	SETS LIBS #20. #103 #1344 DESC P.AA DESC P.AA DESC DESC DESC M3.41	E\$,NOWRT,2 LOGIN, Save R2,R3 SIGNAL, R3 SP CTL\$GQ PROCPRIV+2, 1\$ 88, -(SP) LIB\$STOP 71936, DESC +4 GCLI\$PRESENT 2\$ I CLI\$GET_VALUE +4 , -(SP) LIB\$CVT_DTB STATUS US, 3\$ 3370 ARGLST ER, ARGLST+4 ST OGKNL SYS\$CMKRNL		0310 0334 0335 0340 0341 0343 0350 0353 0354 0353

SETMISC VO4-000		K 11 16-Sep-1984 00:43:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:11 [CLIUTL.SRC]SETMISC.B32;1	Page 13
	52 06 63 7E 000000006 7E 000000006 000000006	50 D0 00086 52 E8 00089 52 DD 0008C 01 FB 0008E 4\$: CALLS #1, LIB\$SIGNAL 04 00091 00 3C 00092 5\$: MOVZWL SYS\$GW_IJOBCNT, -(SP) 00 3C 00099 02 DD 000AO PUSHL #2 04 FB 000AB CALLS #4, LIB\$SIGNAL 04 000AB RET	0367 0376 0376

```
SETMISC
VO4-000
                                                                                                                              VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1
                                  ROUTINE setlogknl (number) = BEGIN !++
   388789912345678990123464646464646461123
This routine is called in kernel mode to set the number of interactive
                                     processes.
                                     Inputs:
                                             NUMBER - address of the limit to set.
                                     Outputs:
                                             None. The interactive job count limit is set.
                                     Set the job limit.
                                  sys$gw_ijoblim = .number;
                                     If the limit is non-zero, turn on interactive jobs. This is done by clearing the high bit of the job controller mailbox status word.
                                  If .number NEQ 0
    ! If at least one allowed to login,
THEN sys$gl_jobctlmb[ucb$v_tt_nologins] = 0; ! enable interactive prompts.
                                  IF .number NEQ 0
                                  RETURN 1:
                                  END:
                                                                              0000 00000 SETLOGKNL:
                                                                                                                    Save nothing
NUMBER, SYS$GW_IJOBLIM
NUMBER
                                                                                                          WORD
                                                                                                                                                                                       0379
0397
0403
                                                                           AC
08
8F
01
                                                                                     $0000
$0000
$0000
                                                                    04
                                        0000000G
                                                                                 B0
13
8A
00
04
                                                                                                          MOVW
                                                                                                          TSTL
                                                                                                         BEQL
BICB2
                                                                                                                                                                                      0404
0406
0407
                                        0000000G
                                                                                                                     #128, SYS$GL_JOBCTLMB+105
                                                                    80
                                                                                     0000F
                                                                                     00017 15:
0001A
                                                                                                          MOVL
; Routine Size: 27 bytes,
                                          Routine Base: $CODE$ + 0154
```

Page 15 (8)

```
SETMISC
VO4-000
                                                                                                                     VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1
                                          THEN
                                                BEGIN
SIGNAL(set$_valerr);
                                                RETURN;
                                          IF NOT (.prolog EQL 0 OR .prolog EQL 2 OR .prolog EQL 3)
                                                                                                          ! Check for valid prolog level
                                                BEGIN
SIGNAL(set$_valerr);
                                                RETURN;
                                                END:
                                           END:
                                   Get the extend quantity. If there, convert it to a number.
                                IF (flags[set$v_extend] = cli$present(%ASCID 'EXTEND_QUANTITY'))
                                      If cli$get_value(%ASCID 'EXTEND_QUANTITY', desc)
                                     THEN
                                           BEGIN
                                          THEN
                                               BEGIN
SIGNAL(set$_valerr);
                                                RETURN:
                                                END:
                                          IF .extend GTR 65535
OR .extend LSS 0
                                                                                                ! Check for in range
                                           THEN
                                                BEGIN
                                                SIGNAL(set$_valerr);
                                                RETURN:
                                                END:
                                           END:
                                   Now to collect all the qualifiers
                                  lags[set$v_hash] = cli$present(%ASCID 'HASH');
lags[set$v_index] = cli$present(%ASCID 'INDEXED');
lags[set$v_rel] = cli$present(%ASCID 'RELATIVE');
lags[set$v_disk] = cli$present(%ASCID 'DISK');
lags[set$v_tape] = cli$present(%ASCID 'MAGTAPE');
lags[set$v_unit] = cli$present(%ASCID 'UNIT_RECORD');
                                  lags[set$v_system] = cli$present(%ASCID 'SYSTEM');
                                   If /SEQUENTIAL was specified, then turn it on for all sequential
```

ARGLST = arg(st))

THEN SIGNAL (.status);

RETURN: END:

SET	-000 000	•											D 12 16-Sep-1984 00:43:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:11 [CLIUTL.SRC]SETMISC.B32;1	Page 19 (8)
			00	54	4E	55	4F	43	5F	48	43	4F 4C 42	0005C P.AAL: .ASCII \BLOCK_COUNT\<0>	
			00	54	4E	55	4F	43	5F	48	43	4F 4C 42	0006C .ADDRESS P.AAL 00070 P.AAN: .ASCII \BLOCK COUNT\<0>	
43	5F	48	43	4F	40	42	5F	48	52	4F 00	57	00000000° 54 45 4E 4E 55 4F	00080 ADDRESS P.AAN	
43	56	49	43	4.6	40	42	5F	40	52			01060013	00084 P.AAP: .ASCII \NETWORK_BLOCK_COUNT\<0> 00093 00098 P.AAO: .LONG 17694739 .ADDRESS P.AAP	
1	,,	70	7,	-		46	31	48	52	4F 00	54	4E 55 4F 010E0013	000A0 P.AAR: .ASCII \NETWORK_BLOCK_COUNT\<0> 000AF 000B4 P.AAQ: .LONG 17694739 000B8 .ADDRESS P.AAR 000BC P.AAT: .ASCII \BUFFER_COUNT\	
			54	4E	55	4F	43	5F	52	45	46	46 55 42 010E000C	000C8 P.AAS: .LONG 17694732	
			54	4E	55	4F	43	5F	52	45	46	40 33 47	OOODO P.AAV: ASCII \RUFFER COUNT\	
							45	55	47	4F	40	4F 52 50 010E0008	000DC P.AAU: .LONG 17694732 000E0 .ADDRESS P.AAV 000E4 P.AAX: .ASCII \PROLOGUE\ 000EC P.AAW: .LONG 17694728 000FO .ADDRESS P.AAX	
							45	55	47	4F	40	4F 52 50 010E0008	000F0	
59	54	49	54	4E	41	55	51	5F	44	4E	45	54 58 45	00100 .ADDRESS P.AAZ 00104 P.ABB: .ASCII \EXTEND_QUANTITY\<0>	
59	54	49	54	4E	41	55	51	5F	44	4E	45	00000000	00114 P.ABA: .LONG 17694735 00118 .ADDRESS P.ABB 0011C P.ABD: .ASCII \EXTEND_QUANTITY\<0>	
												010E000F	0012B 0012C P.ABC: .LONG 17694735 00130 .ADDRESS P.ABD	
											48	010E0004	00134 P.ABF: .ASCII \HASH\ 00138 P.ABE: .LONG 17694724 0013C .ADDRESS P.ABF	
							00	44	45	58	45	44 010E0007	00140 P.ABH: .ASCII \INDEXED\<0> 00148 P.ABG: .LONG 17694727	
							45	56	49	54	41	4C 45 52 010E0008	00150 P.ABJ: .ASCII \RELATIVE\ 00158 P.ABI: .LONG 17694728	
											48	010E0004	0015C .ADDRESS P.ABJ 00160 P.ABL: .ASCII \DISK\ 00164 P.ABK: .LONG 17694724	
							00	45	50	41	54	47 41 4D 010E0007	00168 .ADDRESS P.ABL 0016C P.ABN: .ASCII \MAGTAPE\<0> 00174 P.ABM: .LONG 17694727	
			00	44	52	4F	43	45	52	5F	54	49 4E 55 010E000B	00178 .ADDRESS P.ABN 0017C P.ABP: .ASCII \UNIT_RECORD\<0> 00188 P.ABO: .LONG 17694731	
							00	00	40	45	54	53 59 53 010E0006	0018C .ADDRESS P.ABP 00190 P.ABR: .ASCII \SYSTEM\<0><0> 00198 P.ABQ: .LONG 17694726	
			00	00	40	41	49	54	4E	45	55		0019C .ADDRESS P.ABR 001AO P.ABT: .ASCII \SEQUENTIAL\<0><0>	i

ETMISC 04-000				E 12 16-Sep-1 14-Sep-1	984 00:43:54 VAX-11 Bliss-32 V4.0-742 984 12:09:11 [CLIUTL.SRC]SETMISC.B32;1	Page 20
			01 00	0E000A 001AC P.ABS:	.LONG 17694730 .ADDRESS P.ABT	;
					.PSECT \$CODE\$,NOWRT,2	
			56 000000006 55 000000006 54 000000006 53 00000000°	007C 00000 00 9E 00002 00 9E 00009 00 9E 00010 EF 9E 00017 38 C2 0001E AE D4 00021 8F D0 00024 AE D4 0002C 53 DD 0002F 01 FB 00031 50 F0 0003A AE 9F 0003A AE 9F 00040 02 FB 00043 50 E9 00049 AE DD 0004B	.ENTRY SETSRMS_DEFAULT, Save R2,R3,R4,R5,R6 MOVAB LIBSCVT_DTB, R6 MOVAB CLISGET_VALUE, R5 MOVAB CLISPRESENT, R4 MOVAB P.AAK, R3 SUBL2 #56, SP CLRL FLAGS MOVL #34471936, DESC CLRL DESC+4 PUSHL R3 CALLS #1, CLISPRESENT INSV R0, #3, #1, FLAGS BLBC R0, 1\$ PUSHAB DESC PUSHAB P.AAM CALLS #2, CLISGET_VALUE BLBC R0, 1\$ PUSHL SP PUSHL DESC+4 MOVZWL DESC, -(SP) CALLS #3, LIBSCVT_DTB MOVL R0, STATUS BLBC STATUS, 3\$ CMPL BLOCK_COUNT, #127	0408
		30	AE 020E0000	AE D4 00021 8F D0 00024 AE D4 0002C	CLRL FLAGS MOVL #34471936, DESC	0409 0439
14	AE	01	64 03 2B	53 DD 0002F 01 FB 00031 50 F0 00034	CLRL DESC+4 PUSHL R3 CALLS #1, CLISPRESENT INSV R0, #3, #1, FLAGS BLBC R0, 1\$	0444
			2B 30 14 65 1F	50 F0 00034 50 E9 0003A AE 9F 0003D A3 9F 00040 02 FB 00043 50 E9 00046 5E DD 00049 AE DD 0004B AE 3C 0004E 03 FB 00052 50 D0 00055 52 E9 00058 6E D1 0005B	INSV RO. #3, #1, FLAGS BLBC RO. 1\$ PUSHAB DESC PUSHAB P.AAM CALLS #2, CLI\$GET_VALUE BLBC RO. 1\$ PUSHL SP	044
			38	50 E9 00046 5E DD 00049 AE DD 0004B	BLBC RO, 15 PUSHL SP PUSHL DESC+4	044 045 044
			7E 38 38 66 52 75 8F	AE DD 0004B AE 3C 0004E 03 FB 00055 52 E9 00058 6E D1 00068 77 14 00062 6E D5 00064 7D 19 00066 A3 9F 0006E 50 E9 00074 AE 9F 00077 A3 9F 00078 02 FB 0007D 50 E9 00080 AE DD 00086 AE DD 00086 AE DD 00089 03 FB 00089 05 E9 00093 AE D1 00096 3B 14 00096 3B 14 00096 3B 14 00096 3B 14 00096 3C D0 00089 50 E9 00081 AE 9F 00084	PUSHL DESC+4 MOVZWL DESC, -(SP) CALLS #3, LIB\$CVT_DTB MOVL RO, STATUS BLBC STATUS, 3\$ CMPL BLOCK_COUNT, #127 BGTR 4\$	044
		0000007F	75 8F	52 E9 00058 6E D1 0005B 77 14 00062	BLBC STATUS, 3\$ CMPL BLOCK_COUNT, #127 BGTR 4\$	045
			30	6E D5 00064 7D 19 00066 A3 9F 00068 18:	BGTR 4\$ TSTL BLOCK_COUNT BLSS 5\$ PUSHAB P.AAO	045
15	AE	01	64 06 2E	01 FB 0006B 50 F0 0006E 50 E9 00074	PUSHAB P.AAO CALLS #1, CLISPRESENT INSV RO, #6, #1, FLAGS+1 BLBC RO, 2\$ PUSHAB DESC PUSHAB P.AAQ CLISCET WALLE	
			30 40	AE 9F 00077 A3 9F 0007A 02 FB 0007D	PUSHAB DESC PUSHAB P.AAQ CALLS #2. CLISGET VALUE	0470
			65 22 04	50 E9 00080 AE 9F 00083	BLBC RO, 25 PUSHAB NET BLOCK_COUNT	0473
			7E 38	50 F0 0006E 50 E9 00074 AE 9F 00077 A3 9F 0007A 02 FB 0007D 50 E9 00080 AE 9F 00083 AE DD 00086 AE 3C 00089 03 FB 0008D 50 D0 00090 52 E9 00093 AE D1 00096 3B 14 0009E AE D5 000A0 40 19 000A3	CALLS #2, CLISGET_VALUE BLBC RO, 2\$ PUSHAB NET BLOCK_COUNT PUSHL DESC+4 MOVZWL DESC, -(SP) CALLS #3, LIB\$CVT_DTB MOVL RO, STATUS BLBC STATUS, 7\$ CMPL NET_BLOCK_COUNT, #127 BGTR 4\$	0473 0474 0473
		0000007F	7E 38 66 52 7E 8F 04	52 E9 00093 AE D1 00096	BLBC STATUS, 7\$ CMPL NET_BLOCK_COUNT, #127	0481
			04	AE D5 000A0 40 19 000A3	TSTL NET_BLOCK_COUNT BLSS 5\$	0482
14	AE	01	64 04 33	A3 9F 000A5 2\$: 01 FB 000A8 50 F0 000AB	CALLS #1, CLISPRESENT INSV RO, #6, #1, FLAGS+1 BLBC RO, 2\$ PUSHAB DESC PUSHAB P.AAQ CALLS #2, CLISGET_VALUE BLBC RO, 2\$ PUSHAB NET BLOCK_COUNT PUSHL DESC+4 MOVZWL DESC, -(SP) CALLS #3, LIBSCVT_DTB MOVL RO, STATUS BLBC STATUS, 7\$ CMPL NET_BLOCK_COUNT, #127 BGTR 4\$ TSTL NET_BLOCK_COUNT BLSS 5\$ PUSHAB P.AAS CALLS #1, CLISPRESENT INSV RO, #4, #1, FLAGS BLBC RO, 6\$ PUSHAB DESC	0493
			33 30	50 E9 000B1 AE 9F 000B4	INSV RO, #4, #1, FLAGS BLBC RO, 6\$ PUSHAB DESC	0499

SETMISC V04-000			F 12 16-Sep-1984 00:43:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:11 [CLIUTL.SRC]SETMISC.B32;1	Page 21 (8)
		65 27	9F 000B7	1
			E 9F 000CO PUSHAB BUFFER_COUNT	0498
		7E 38 52	9F 000BA 0 FB 000BA 0 FB 000BA 0 FB 000C0 E DD 000C0 E DD 000C3 3 C MOVZWL 0 FB 000CA 0 D0 000CD 3 C MOVZWL 0 FB 000DA 0 SS: BLBC CMPL BUFFER_COUNT, #127 B1 000DB E DD 000C5 E DD 000C6 SS: BLBC CMPL BUFFER_COUNT, #127 B1 000DB E DD 000C7 E DL	0498 0499 0498
			0 DO 000CD MOVE RO, STATUS 2 2 E9 000DO 38: BLBC STATUS, 7\$	
	0000007F	8F 08	E D1 000D3 CMPL BUFFER_COUNT, #127 8 14 000DB 48: BGTR 8\$	0506
	FFFFFF81	8F 08 0084	E D1 000DD CMPL BUFFER_COUNT, #-127 F 19 000E5 5\$: BLSS 10\$ 3 9F 000E7 6\$: PUSHAB P.AAW	0507
14 AE	01	64	F 19 000E5 5\$: BLSS 10\$ 3 9F 000E7 6\$: PUSHAB P.AAW 1 FB 000EB CALLS #1, CLI\$PRESENT 0 F0 000EE INSV RO, #5, #1, FLAGS 0 E9 000F4 BLBC RO, 9\$. 0316
		30 0094	0 F0 000EE INSV RO, #5, #1, FLAGS 0 E9 000F4 BLBC RO, 9\$ E 9F 000F7 PUSHAB DESC	0520
		65 23	3 9F 000FA PUSHAB P.AAY 2 FB 000FE CALLS #2, CLI\$GET_VALUE 0 E9 00101 BLBC R0, 9\$ E 9F 00104 PUSHAB PROLOG	
		7E 38	E 9F 00104 PUSHAB PRÓLÓG E DD 00107 PUSHL DESC+4	0523 0524 0523
		7E 38	E DD 00107 PUSHL DESC+4 E 3C 0010A MOVZWL DESC, -(SP) 3 FB 0010E CALLS #3, LIB\$CVT_DTB	0523
		7E 38 66 52 4F 50 0C	1 FB 000EB	0531
		02	2 E9 00114 7\$: BLBC STATUS, 10\$ E D0 00117 MOVL PROLOG, R0 A 13 0011B BEQL 9\$ D D1 0011D CMPL R0, #2 5 13 00120 BEQL 9\$ CMPL R0, #3 F 12 00125 8\$: BNEQ 10\$ 3 9F 00127 9\$: PUSHAB P.ABA	0532
			5 13 00120 BEQL 9\$ 0 D1 00122 CMPL RO, #3 F 12 00125 8\$: BNEQ 10\$	0533
		OOAC	0 D1 00122 CMPL RO, #3 F 12 00125 8\$: BNEQ 10\$ 3 9F 00127 9\$: PUSHAB P.ABA 1 FB 0012B CALLS #1, CLI\$PRESENT	0544
15 AE	01	64 05 38	1 FB 0012B CALLS #1, CLI\$PRESENT 0 F0 0012E INSV R0, #5, #1, FLAGS+1 0 E9 00134 BLBC R0, 11\$ E 9F 00137 PUSHAB DESC	
		0004	9F 00137 PUSHAB DESC 3 9F 0013A PUSHAB P.ABC	0546
		65 2B	2 FB 0013E CALLS #2, CLI\$GET_VALUE 0 E9 00141 BLBC RO, 11\$ E 9F 00144 PUSHAB EXTEND	0549
		7E 38	THE OUT OF THE CALLS WI, CLISPRESENT INSV RO, W5, W1, FLAGS+1 DEP 00134 BLBC RO, 11\$ DEP 00137 PUSHAB DESC DEP 0013A PUSHAB P.ABC CALLS W2, CLISGET_VALUE DEP 00141 BLBC RO, 11\$ DEP 00144 PUSHAB EXTEND DEP 00147 PUSHAB EXTEND DESC+4 D	0549 0550 0549
		7E 38 66 52 0F 8F 10	3 FB 0014E CALLS #3, LIB\$CVT_DTB 0 D0 00151 MOVL RO, STATUS	
	0000FFFF	8F 10	E D1 00157 CMPL EXTEND, #65535 5 14 0015F BGTR 10\$	0557
		10	THE OO12B CALLS W1, CLISPRESENT INSV RO, W5, W1, FLAGS+1 DE OF OO134 BLBC RO, 11\$ DE OF OO137 PUSHAB DESC DE OO136 PUSHAB P.ABC DE OO141 BLBC RO, 11\$ DE OF OO144 PUSHAB EXTEND DE OO147 PUSHAB EXTEND DE OO147 PUSHAB EXTEND DE OO148 MOVZWL DESC, -(SP) CALLS W3, LIBSCVT_DTB DO OO151 MOVL RO, STATUS DE OO154 BLBC STATUS, 10\$ DE OO155 BGTR 10\$ DE OO166 TSTL EXTEND DE O	0558
		007711EA	F DD 00166 10\$: PUSHL #7803370 0 31 0016C BRW 15\$	0561
15 AE	01	64 0000	F DD 00166 10\$: PUSHL #7803370 0 31 0016C BRW 15\$ 3 9F 0016F 11\$: PUSHAB P.ABE 1 FB 00173 CALLS #1, CLI\$PRESENT 0 FO 00176 INSV RO, #4, #1, FLAGS+1 3 9F 0017C PUSHAB P.ABG	0569
17 16	V.	00E0	0 FO 00176 INSV RO. #4, #1, FLAGS+1 3 9F 0017C PUSHAB P.ABG	: 0570

SETMISC VO4-000								1	5 12 5-Sep- 4-Sep-	1984 00:43 1984 12:09	:54	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1	Page	(8)
15	AE	01		64	00F0	01 50	FB FO	00100			#1. RO	CLISPRESENT #3, #1, FLAGS+1	1.	0571
15	AE	01		64	OOFC	01	FB	00180		CALLS	P.AB	CLISPRESENT #2, #1, FLAGS+1		
14	AE	01		64	0100	50	FB	0019A		CALLS	#1. RO,	CLISPRESENT #2, #1, FLAGS+1 K CLISPRESENT #6, #1, FLAGS		0572
14	AE	01		64	0120	01	FB	001A7		CALLS	#1. RO.	CLISPRESENT #7, #1, FLAGS O CLISPRESENT #0, #1, FLAGS+1		0573
15	AE	01		64	0130	01	FB	001AA 001B0 001B4 001B7 001BD		CALLS	#1. RO.	CLISPRESENT #0, #1, FLAGS+1		0574
14	AE	01		64	0144	01	FB	001C1		CALLS	#1. RO,	#2 #1 FIAGS		0575
			14	64 06 AE		01	FB E9	001CE		CALLS INSV PUSHAB CALLS INSV PUSHAB INSV	#1. RO.	S CLISPRESENT 128 FLAGS+1		0581
		14	14		03C0 14	AE 19	95	001DA 001DD	12\$:	TSTB BLSS	FLAG	S I AGC 176		0583 0591
		0B 06		AE AE AE	15	AE 03	E8	001DD 001DF 001E4 001E8 001ED 001F2		BLBS BBS BBS	FLÁG	S+1, 13\$ FLAGS+1, 13\$. 0)593)594
		0E	15 15 14 14	AE	0100	8F 02	A8 E1 E8	001F2 001F8 001FD	13\$:	BISW2 BBC	#448	FLAGS, 13\$ S+1, 13\$ FLAGS+1, 13\$ FLAGS+1, 13\$, FLAGS	. 00	0592 0593 0594 0595 0597 0604 0607 0610
			18		0000000G 2804	00 8F 34	3C	00204	145:		15\$	44, -(SP)		
			18 10 20 24	AE AE AE	14	OG AE AE AE AE AE	00 9E 00 70		140.	MOVAB MOVL MOVQ	FLAG	S, ARGLST+4 K_COUNT, ARGLST+8 EB_COUNT_ARGLST+12	. 0)620)621
			20 24 20 30	AE AE AE	08 10 04 18	AE AE	D0	0021D 00222 00227		MOVL MOVL PUSHAR	EXTE NET ARGE	ND, ARGLST+20 BLOCK_COUNT, ARGLST+24	. 0	0619 0620 0621 0622 0624 0625 0627
			000000006	00 52 09	00000ÖV	EF 02 50	9F FB	0022A 00230 00237		MOVL PUSHAB PUSHAB CALLS MOVL BLBS PUSHL	SETR #2,	MSKNL SYS\$CMKRNL STATUS		,02.
			00000000G	09		52 52 01	E8 DD FB 04	0023D 0023F	15\$: 16\$:	BLBS PUSHL CALLS	STAT STAT #1,	ARGLST S, ARGLST+4 K_COUNT, ARGLST+8 ER_COUNT, ARGLST+12 ND, ARGLST+20 BLOCK_COUNT, ARGLST+24 ST MSKNL SYS\$CMKRNL SYS\$CMKRNL STATUS US, 16\$ US LIB\$SIGNAL		0628
: Routine	Size:	583 bytes,	Routine	Rase	* SCODES				16\$:	RET			: 00)631

THEN sys\$gw_rmsextend = .extend;

! /EXTEND

Page (3)

```
SETMISC
VO4-000
                                                                                                                                                               VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1
                                                                                                                                                                                                                                 Page
     697
698
699
700
701
702
703
704
707
708
709
710
                                              If not /SYSTEM, then it must be for the process.
                                          ELSE
                                                  BEGIN
IF .flags[set$v_block]
THEN
                                                                                                                    ! Make process mods
! /BLOCK_COUNT
                                                  pio$gb_dfmbc = .block_count;
IF .flags[set$v_netblk]
THEN
                                                                                                                    ! /NETWORK
                                                  pio$gb_dfnbc = .net_block_count;
IF .flags[set$v_buffer] ! /BUFFER_COUNT
THEN
                                                        ! /UNIT_RECORD
    720
721
722
723
724
725
726
727
730
731
                                                                                                                    ! /RELATIVE
                                                  END;
If .flags[set$v_prolog]
THEN pio$gb_rmsprolog =
If .flags[set$v_extend]
                                                                                                                    ! /PROLOG
                                                                                              .prolog;
                                                                                                                    ! /EXTEND
                                                   THEN piosgw_rmsextend = .extend;
                                           RETURN 1;
                                           END:
                                                                                                   0000 00000 SETRMSKNL:
                                                                                                                                                                                                                                        0632
0656
                                                                                                                                      .WORD
                                                                                                                                                    Save nothing
                                                                                                            00002
00006
0000A
0000E
00016
0001A
00022
00026
0002A
00032
00034
00036
00036
00042
                                                                                                                                      MOVL
                                                                                                                                                    FLAGS, RO
                                                                                                #2, (RO), 10$
#3, (RO), 1$
BLOCK_COUNT, SYS$GB_DFMBC
#14, (RO), 2$
NET_BLOCK_COUNT, SYS$GB_DFNBC
#4, (RO), 8$
#6, (RO), 3$
                                                                                                                                      BBC
BBC
                                                                                                                                                                                                                                        0659
0661
0663
0665
0667
0670
0671
                                                  0000000G
                                                                                       08
                                                                                                                                      MOVB
                                                                                                                                      BBC
                                                                                                                                      MOVB
BBC
BBC
                                                  0000000G
                                                                                       18
                                                                                                                                                    #6, (RO), 35
BUFFER_COUNT, SYS$GB_DFMBFSDK
                                                                                                                                      MOVB
TSTB
BGEQ
MOVB
BLBC
                                                   0000000G
                                                                                       00
                                                                                                                                                                                                                                        0673
0674
0675
0676
                                                                                                                                                    BUFFER_COUNT, SYS$GB_DFMBFSMT
1(RO), 5$
BUFFER_COUNT, SYS$GB_DFMBFSUR
#12, (RO), 6$
                                                   0000000G
                                                   0000000G
                                                                                                                                      MOVB
```

SETMISC VO4-000	J 12 16-Sep-1984 00:43:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:11 [CLIUTL.SRC]SETMISC.B32;1	Page (25)
	00000000G 00 0C AC 90 0004E 68: BBC #11 (R0), 7\$ 0000000G 00 0C AC 90 0005A movb Buffer (ount, syssgb_pfmbfidx 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0677 0678 0679 0680 0681 0683 0684 0685 0686 0696 0697 0703 0703 0704 0705 0707 0708 0709 0710 0711 0712 0713 0714 0716 0717 0718 0718 0722 0723

; Routine Size: 264 bytes, Routine Base: \$CODE\$ + 03B6

```
GLOBAL ROUTINE set$working_set : NOVALUE = BEGIN
     This routine implements the SET WORKING SSET command. The values and qualifiers are collected and checked, then a kernel call is made to actually set the parameters.
                                        Inputs:
                                                  None. The CLI is interrogated.
                                        Outputs:
                                                 None. The working set defaults are changed.
                                     LOCAL
                                           status,
limit,
                                                                                                                  Status return
                                                                                                                 Status return
Working set limit
Working set quota
Working set extent
And the real values that
were specified by the
user before juggling
Minimum guaranteed working set
Authorized limit
Authorized extent
flags longword
General descriptor
                                            quota,
                                           extent
                                           specified_limit,
                                           specified quota, specified extent,
                                           min_wset,
auth_limit,
                                            auth_extent,
                                           flags: $BBLOCK[4] INITIAL(0),
desc: $BBLOCK[dsc$c_s_bln],
arglist: VECTOR[5];
                                                                                                                  General descriptor
                                                                                                               ! Argument list for kernel call
                                           phd = .ctl$gl_phd : $BBLOCK;
                                                                                                              ! Point to this process's PHD
                                        Initialize the descriptor, and calculate some quantities that are handy to
                                        have. These are the authorized working set limit, the minimum working set,
                                        and the authorized extend limit.
                                     $init_dyndesc(desc);
auth_limit = .phd[phd$w_wsauth] - .phd[phd$w_wslist] + 1;
auth_extent = .phd[phd$w_wsauthext] - .phd[phd$w_wslist] + 1;
min_wset = .phd[phd$w_wsdyn] - .phd[phd$w_wslist] + 2*.phd[phd$w_wsfluid] + 3;
                                        Get the /[NO]ADJUST and /[NO]LOG flags.
                                        If the /ADJUST qualifier is present explicitly, then set that flag, and in the process note whether it was /ADJUST or /NOADJUST.
                                     Get the /ADJ or /NOADJ but only use it if
                                     status = flags[set$v_log] = clispresent(%ASCID 'LOG');
                                                                                                               ! Same for /LOG
                                     flags[set$v_explog] = (.status NEQ clis_absent);
```

VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32:1

```
If a new limit is given, then check that the value is valid, and
  then apply some common sense bounds checking. If no new limit was set,
  compute the current one.
IF (flags[set$v_limit] = cli$get_value(%ASCID 'LIMIT', desc))
THEN
                                                    ! Convert from ASCII to number
    IF NOT lib$cvt_dtb(.desc[dsc$w_length], .desc[dsc$a_pointer], specified_limit)
    THEN
                                                    ! If an error, signal it
         SIGNAL(set$_invquaval, 2, desc, %ASCID 'LIMIT');
         RETURN:
         END
    ELSE
                                                      If the value is good, check
that it is within reasonable
         BEGIN
        LOCAL temp; bounds. temp = MAX(.min_wset, .specified_limit); No lower than the minimum,
         limit = MIN(.temp, .auth_limit);
                                                    ! No higher than the authorized
         END:
    END
  If no new limit was given, compute the current one.
If a new value given, validate it and make some common sense
  range checks
IF (flags[set$v_quota] = cli$get_value(%ASCID 'QUOTA', desc))
THEN
                                                    ! Convert from ASCII to number
    specified_quota)
    THEN
                                                    ! If an error, signal it
        BEGIN
SIGNAL(set$_invquaval, 2, desc, %ASCID 'QUOTA');
         RETURN;
         END
    ELSE
                                                     Otherwise make some
         BEGIN
                                                     bounds checks
        LOCAL temp;
temp = MAX(.min_wset, .specified_quota);! No lower than the minimum,
temp = MIN( temp ...auth limit); ! No higher than the authorized
         END:
    END
  If no new quota given, compute the current one.
```

```
ELSE quota = specified_quota = .phd[phd$w_wslist] + 1;
                                If a new extent is given, validate and make the usual checks.
                    IF (flags[set$v_extent] = cli$get_value(%ASCID 'EXTENT', desc))
                              THEN
                                                                                          ! Convert from ASCII to a number
                                   IF NOT Lib$cvt_dtb(.desc[dsc$w_length]
                                                           .desc[dsc$a_pointer],
specified_extent)
                                   THEN
                                                                                          ! If an error, signal it.
                                        SIGNAL(set$_invquaval, 2, desc, %ASCID 'EXTENT');
                                        RETURN:
                                        END
                                   ELSE
                                        BEGIN
                                                                                          ! Make some bounds checks
                                        LOCAL temp
                                        temp = MAX(.min_wset, .specified_extent);! No lower than the minimum,
                                                                                          ! No higher than the authorized
                                        extent = MIN(.temp, .auth_extent);
                                        END;
                                   END
                                If no new extent given, compute the current one.
                              ELSE extent = specified_extent
                                             = .phd[phd$w_wsextent] - .phd[phd$w_wslist] + 1;
                    0871
                                Now for some further consistency checking. The general rule is that
                    0874
0875
0876
0877
                                                  LIMIT < QUOTA < EXTENT
                                Because LIMIT is what the working set is at image rundown,
                    0878
0879
                                           QUOTA is what a process is guaranteed it can grow to, and
                                EXTENT is what it might grow to if there's extra memory around. In addition, the relative importance of the qualifiers is that EXTENT is relatively more important than QUOTA, which is more important than LIMIT.
                    0880
0881
0882
0883
                                 These are the general rules that govern the mess that follows.
                                If all the EXTENT, QUOTA, and LIMIT were changed, or the EXTENT and QUOTA, or just the EXTENT, the EXTENT is taken as the most important, and the
                    0886
0887
                                other two values get adjusted accordingly.
                              If (.flags[set$v_extent] AND .flags[set$v_quota])
OR (.flags[set$v_extent] AND NOT (.flags[set$v_quota] OR .flags[set$v_limit]))
                    0890
0891
0892
0893
0894
                              THEN
                                   BEGIN
                                   quota = MIN(.extent, .quota);
                                                                                ! QUOTA < EXTENT
                                   limit = MIN(.quota, .limit);
                                                                                ! and LIMIT < QUOTA
                                   END
```

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If user specified /LOG or if any of the values were juggled, and the user didn't say /NOLOG

SETMISC V04-000	2 7 THEN SIGNAL (age) and in 7	B 13 16-Sep-1984 00:43:54 VAX-11 Bliss-32 V4.0-742 Page 30 14-Sep-1984 12:09:11 [CLIUTL.SRCJSETMISC.B32;1 (10)
; 961 ; 962 ; 963 ; 964 ; 965 ; 965 ; 966 ; 967 ; 967	6 2 RETURN 1:	! signal an informational
		.PSECT \$PLIT\$,NOWRT,NOEXE,2
	00 00 54 53 55 4A 44 41 010E0006 00000000	001B4 P.ABV: .ASCII \ADJUST\<0><0> 001BC P.ABU: .LONG 17694726 001C0 .ADDRESS P.ABV
	00 47 4F 4C 010E0003 00000000	001C4 P.ABX: .ASCII \LOG\<0> 001C8 P.ABW: .LONG 17694723
	00 00 00 54 49 4D 49 4C	001D0 P.ABZ: .ASCII \LIMIT\<0><0><0>
	010E0005 00000000° 00 00 00 54 49 40 49 40 010E0005	001D8 P.ABY: .LONG 17694725 001DC .ADDRESS P.ABZ 001E0 P.ACB: .ASCII \LIMIT\<0><0><0> 001E8 P.ACA: .LONG 17694725
	010E0005 000000000 00 00 00 41 54 4F 55 51	001EC .ADDRESS P.ACB 001F0 P.ACD: .ASCII \QUOTA\<0><0> 001F8 P.ACC: .LONG 17694725
	010E0005 000000000 000000000 010E0005	001FC .ADDRESS P.ACD 00200 P.ACF: .ASCII \QUOTA\<0><0><0>
	010E0005 000000000 00 00 54 4E 45 54 58 45	0020C .ADDRESS P.ACF 00210 P.ACH: .ASCII \EXTENT\<0><0>
	010E0006 000000000 00 00 54 4E 45 54 58 45	00218 P.ACG: .LONG 17694726 0021C .ADDRESS P.ACH 00220 P.ACJ: .ASCII \EXTENT\<0><0>
	00 00 54 4E 45 54 58 45 010E0006 000000000	00228 P.ACI: .LONG 17694726 0022C .ADDRESS P.ACJ
		.PSECT \$CODE\$,NOWRT,2
		00000 .ENTRY SET\$WORKING_SET, Save R2,R3,R4,R5,R6,R7,R8,-: 0724 R9,R10,R11
	5B 0000000G 00 9E 5A 0000000G 00 9E 59 0000000	00000 .ENTRY SET\$WORKING_SET, Save R2,R3,R4,R5,R6,R7,R8,-; 0724 R9,R10,R11 00002 MOVAB LIB\$CVT_DTB, R11 00009 MOVAB CLI\$GET_VALUE, R10 00010 MOVAB P.ABU, R9 00017 SUBL2 #44, SP
	26 20 63	00017 SUBL2 #44, SP 0001A CLRL FLAGS : 0725 0001D MCVL CTL\$GL PHD, R6 : 0756 00024 MOVL #34471936, DESC : 0763
	28 AE D4	00002 MOVAB LIB\$CVÎ_DTB, R11 00009 MOVAB CLI\$GET_VALUE, R10 00010 MOVAB P.ABU, R9 00017 SUBL2 #44, SP 0001A CLRL FLAGS 0001D MCVL CTL\$GL PHD, R6 00024 MOVL #34471936, DESC 0002C CLRL DESC+4 0002F MOVZWL 8(R6), R7 00033 MOVZWL 10(R6), R5 00037 SUBL2 R7, R5 0003A MOVAB 1(R5), AUTH_LIMIT 0003E MOVZWL 20(R6), R1 00042 SUBL2 R7, R1
	57 08 A6 30 55 0A A6 30 55 57 C2 52 01 A5 9E	0002C CLRL DESC+4 0002F MOVZWL 8(R6), R7 00033 MOVZWL 10(R6), R5 00037 SUBL2 R7, R5 0003A MOVAB 1(R5), AUTH_LIMIT 0003E MOVZWL 20(R6), R1 00042 SUBL2 R7, R1
	52 01 A5 9E 51 14 A6 3C 51 57 C2	00037 SUBL2 R7, R5 0003A MOVAB 1(R5), AUTH_LIMIT 0003E MOVZWL 20(R6), R1 : 0765 00042 SUBL2 R7, R1

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	55 51	01 A1 9E 00045 MOVAB 1(R1), AUTH_EXTENT 0E A6 3C 00049 MOVZWL 14(R6), R1 57 C2 00040 SUBL2 R7, R1 74 A6 3C 00050 MOVZWL 116(R6), R0	: 0766
	50	01 A1 9E 00045 MOVAB 1(R1), AUTH_EXTENT 0E A6 3C 00049 MOVZWL 14(R6), R1 57 C2 0004D SUBL2 R7, R1 74 A6 3C 00050 MOVZWL 116(R6), R0 03 A140 3E 00054 MOVAW 3(R1)[R0], MIN_WSET 59 DD 00059 PUSHL R9	
OC AE	01 00000000G 00 06 58		0775
	00000000 8F	01 FB 0005B CALLS #1, CLISPRESENT 50 F0 00062 INSV RO, #6, #1, FLAGS 50 D0 00068 MOVL RO, STATUS 50 D4 0006B CLRL RO 58 D1 0006D CMPL STATUS, #CLIS_ABSENT	0776
		58 D1 0006D CMPL STATUS, #CLIS_ABSENT 02 13 00074 BEQL 1\$ 50 D6 00076 INCL RO	
OC AE	01 05 00000000G 00	02 13 00074 BEQL 1\$ 50 D6 00076 INCL R0 50 F0 00078 1\$: INSV R0, #5, #1, FLAGS 0C A9 9F 0007E PUSHAB P.ABW 01 FB 00081 CALLS #1, CLI\$PRESENT 50 F0 00088 INSV R0, #0, #1, FLAGS	0779
OC AE	01 00000000G 00 00 58	01 FB 00081 CALLS #1, CLISPRESENT 50 F0 00088 INSV RO, #0, #1, FLAGS 50 D0 0008E MOVL RO, STATUS	079/
	0000000G 8F	50 D4 00091 CLRL R0 58 D1 00093 CMPL STATUS, #CLI\$_ABSENT 02 13 0009A BEQL 2\$ 50 D6 0009C INCL R0	0780
OC AE	01 01	02 13 00074 50 D6 00076 1NCL R0 50 F0 00078 1\$: INSV R0, #5, #1, FLAGS 0C A9 9F 0007E	078
OC AE	01 6A 02 2C	50 FO 0009E 2\$: INSV RO, #1, #1, FLAGS 24 AE 9F 000A4 PUSHAB DESC 1C A9 9F 000A7 PUSHAB P.ABY 02 FB 000AA CALLS #2, CLIC IT_VALUE 50 FO 000AD INSV RO, #2, #1, FLAGS 50 E9 000B3 BLBC RO, 6\$	
OC AE	20	02 FB 000AA CALLS #2, CLIST_VALUE 50 F0 000AD INSV R0, #2, #1, FLAGS 50 E9 000B3 BLBC R0, 6\$ 5E DD 000B6 PUSHL SP	079 079
	7E 6B 05	50 E9 000B3 BLBC R0, 6\$ 5E DD 000B6 PUSHL SP 2C AE DD 000B8 PUSHL DESC+4 2C AE 3C 000BB MOVZWL DESC, -(SP) 03 FB 000BF CALLS #3, LIB\$CVT_DTB 50 E8 000C2 BLBS R0, 3\$ 2C A9 9F 000C5 PUSHAB P.ACA	079
	05	03 FB 000BF CALLS #3, LIB\$CVT_DTB 50 E8 000C2 BLBS R0, 3\$ 2C A9 9F 000C5 PUSHAB P.ACA 4C 11 000C8 BRB 8\$	0796
	50 6E	4C 11 000C8 BRB 8\$ 53 DO 000CA 3\$: MOVL MIN_WSET, RO 50 D1 000CD CMPL RO, SPECIFIED_LIMIT 03 18 000D0 BGEQ 4\$	0802
	50 52	2C AE DD 000BB MOVZWL DESC, -(SP) 03 FB 000BF CALLS #3, LIBSCVT_DTB 50 E8 000C2 BLBS R0, 3\$ 2C AP 9F 000C5 PUSHAB P.ACA BRB 8\$ 53 DO 000CA 3\$: MOVL MIN_WSET, R0 CMPL R0, SPECIFIED_LIMIT 06 DO 000D2 SO DO 000DA SO: MOVL SPECIFIED_LIMIT, R0 07 11 000CD BEQ SS MOVL AUTH_LIMIT, R0 08 DO 000DA SS: MOVL AUTH_LIMIT, R0 09 DO 000DA SS: MOVL AUTH_LIMIT, R0 10 DO 000DB SO MOVL AUTH_LIMIT, R0 11 DO 000EB SO MOVL AUTH_LIMIT, R0 12 AE 9F 000F1 TS: PUSHAB DESC 13 DO 000EB TS: MOVZWL 26(R6), R1 14 AE 9F 000F3 PUSHAB DESC 15 DO 000F4 CALLS #2, CLISGET_VALUE 15 DO 000EB SUBLE R0, #3, #1, FLAGS 15 DO 000F4 PUSHAB SPECIFIED_LIMIT 15 DO 000EB SUBLE R7, R1 16 DO 000EB SUBLE R7, R1 17 SEC FB 000F7 SO FO 000FA SS FE O 00105 PUSHAB SPECIFIED_LIMIT 18 DO 000EB SUBLE R0, #3, #1, FLAGS 18 DO 00106 PUSHAB SPECIFIED_LIMIT 18 DO 000EB SUBLE R0, #3, #1, FLAGS 18 DO 00106 PUSHAB SPECIFIED_QUOTA 20 AE DD 00106 PUSHAB SPECIFIED_QUOTA 21 DESC+4 22 AE 3C 00109 PUSHAB DESC+4 23 AE 3C 00109 PUSHAB SPECIFIED_QUOTA 24 DESC+4 25 PUSHAB SPECIFIED_QUOTA 25 PUSHAB SPECIFIED_QUOTA 26 PUSHAB SPECIFIED_QUOTA 27 PUSHAB SPECIFIED_QUOTA 28 PUSHAB SPECIFIED_QUOTA 29 PUSHAB SPECIFIED_QUOTA 20 PUSHAB SPECIFIED_QUOTA 21 PUSHAB SPECIFIED_QUOTA 22 PUSHAB SPECIFIED_QUOTA 23 PUSHAB SPECIFIED_QUOTA 24 PUSHAB SPECIFIED_QUOTA 25 PUSHAB SPECIFIED_QUOTA 25 PUSHAB SPECIFIED_QUOTA 26 PUSHAB SPECIFIED_QUOTA 27 PUSHAB SPECIFIED_QUOTA 28 PUSHAB SPECIFIED_QUOTA 29 PUSHAB SPECIFIED_QUOTA 20 PUSHAB SPECIFIED_QUOTA 20 PUSHAB SPECIFIED_QUOTA 20 PUSHAB SPECIFIED_QUOTA 20 PUSHAB SPECIFIED_QUOTA 25 PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHA	0803
	50 54	03 15 000D8 BLEQ 5\$ 52 DO 000DA MOVL AUTH LIMIT, RO 50 DO 000DD 5\$: MOVL RO, CIMIT	
	51 51	0F 11 000E0 BRB 7\$ 1A A6 3C 000E2 6\$: MOVZWL 26(R6), R1 57 C2 000E6 SUBL2 R7, R1 51 D6 000E9 INCL R1	0788 0810
	6E 54	51 D6 000E9 INCL R1 51 D0 000EB MOVL R1, SPECIFIED_LIMIT	
	54	51 DO 000EE MOVL R1, LIMIT 24 AE 9F 000F1 7\$: PUSHAB DESC 3C A9 9F 000F4 PUSHAB P.ACC	0818
OC AE	01 6A 03 2F	1A A6 3C 000E2 6\$: MOVZWL 26(R6), R1 57 C2 000E6 SUBL2 R7, R1 51 D6 000E9 INCL R1 51 D0 000EB MOVL R1, SPECIFIED_LIMIT 51 D0 000EE MOVL R1, LIMIT 24 AE 9F 000F1 7\$: PUSHAB DESC 3C A9 9F 000F4 PUSHAB P.ACC CALLS #2, CLISGET_VALUE 1NSV R0, #3, #1, FLAGS 50 E9 00100 BLBC R0, 12\$ 04 AE 9F 00103 PUSHAB SPECIFIED_QUOTA 2C AE DD 00106 PUSHL DESC+4 2C AE 3C 00109 MOVZWL DESC, -(SP)	
	er .	50 E9 00100 BLBC R0, 12\$ 04 AE 9F 00103 PUSHAB SPECIFIED_QUOTA 2C AE DD 00106 PUSHL DESC+4 2C AE 3C 00109 MOVZWL DESC, -(SP)	0821 0822 0821

SETMISC VO4-000			D 13 16-Sep-1984 00:43:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:11 [CLIUTL.SRC]SETMISC.B32;1	Page 37
		6B 05 4C	03 FB 0010D 50 E8 00110 A9 9F 00113 4C 11 00116 8\$: BRB P.ACE 50 D1 00118 9\$: MOVL MIN_WSET, RO CMPL RO, SPECIFIED_QUOTA BEGQ 10\$ MOVL SPECIFIED_QUOTA, RO CMPL RO, AUTH_LIMIT 50 D1 00125 10\$: CMPL RO, AUTH_LIMIT 50 D1 00125 10\$: CMPL RO, AUTH_LIMIT, RO 03 15 00128 BLEQ 11\$ BLEQ 11\$ MOVL AUTH_LIMIT, RO 00 11 00130 BRB 13\$ A6 3C 00132 12\$: MOVZWL 24(R6), R2 57 C2 00136 57 C2 00136 57 C2 00136 59 D0 00124 INS: MOVZ RO, QUOTA AE 9F 0013F 13\$: PUSHAB DESC AP 9F 00142 CALLS W2, CLISGET_VALUE INSV RO, M4, #1, FLAGS BLBC RO, 18\$ SO E9 00146 ARE 9F 00151 PUSHAB SPECIFIED_EXTENT AE DD 00154 ARE 9F 00157 CALLS W3, LIB\$CVT_DTB BLBC RO, 18\$ SPECIFIED_EXTENT PUSHAB SPECIFIED_EXTENT PUSHAB DESC(+4) MOVZWL DESC(-4) MOVZWL DESC(-5) CALLS W3, LIB\$CVT_DTB BLBC RO, 15\$ RO, 15	: 0826
	04	50 AE	55 DO 00118 95: MOVL MIN WSET, RO	0832
		50 52	00 01 0011B	083
		50 52	52 DO 0012A MOVL AUTH_LIMIT, RO 50 DO 0012D 11\$: MOVL RO, QUOTA 0D 11 00130 BRB 13\$ A6 3C 00132 12\$: MOVZWL 24(R6), R2 57 C2 00136 SUBL2 R7, R2	
		52 52	A6 3C 00132 12\$: MOVZWL 24(R6), R2 57 C2 00136 SUBL2 R7, R2	0818 0840
	04	AE 24 5C	57 C2 00136 52 D6 00139 52 D0 00138 AE 9F 0013F 13\$: PUSHAB DESC A9 9F 00142	084
OC AE	01	6A 04 40	A9 9F 00142 PUSHAB P.ACG 02 FB 00145 CALLS #2, CLI\$GET_VALUE 50 F0 00148 INSV R0, #4, #1, FLAGS 50 E9 0014E BLBC R0, 18\$ AE 9F 00151 PUSHAB SPECIFIED_EXTENT	
		08 20	AE 9F 0013F 13\$: PUSHAB DESC A9 9F 00142 PUSHAB P.ACG 02 FB 00145 CALLS #2, CLI\$GET_VALUE 50 F0 00148 INSV RO, #4, #1, FLAGS 50 E9 0014E BLBC RO, 18\$ AE 9F 00151 PUSHAB SPECIFIED_EXTENT AE DD 00154 PUSHL DESC+4 AE 3C 00157 MOVZWL DESC, -(SP) 03 FB 0015B CALLS #3, LIB\$CVT_DTB 50 E8 0015E BLBS RO, 15\$ A9 9F 00161 PUSHAB P.ACI AE 9F 00164 14\$: PUSHAB DESC 02 DD 00167 PUSHL #2 8F DD 00169 PUSHL #7803690 04 FB 0016F CALLS #4, LIB\$SIGNAL	085 085 085
		6B 16	03 FB 0015B CALLS #3, LIB\$CVT_DTB 50 E8 0015E BLBS R0, 15\$ A9 9F 00161 PUSHAB P.ACI	•
		6C 28	AE 9F 00164 14\$: PUSHAB DESC 02 DD 00167 PUSHL #2	085
	00000000		02 DD 00167 PUSHL #2 8F DD 00169 PUSHL #7803690 04 FB 0016F CALLS #4, LIB\$SIGNAL 04 00176 RET 53 D1 00177 15\$: CMPL R3, SPECIFIED_EXTENT	0854 086
	08		53 D1 00177 15%: CMPL R3, SPECIFIED_EXTENT 04 18 0017B BGEQ 16\$ AE D0 0017D MOVL SPECIFIED_EXTENT, R3 53 D0 00181 16%: MOVL R3, TEMP	086
		53 50 55	04 00176 RET 53 D1 00177 15\$: CMPL R3, SPECIFIED_EXTENT 04 18 0017B BGEQ 16\$ AE D0 0017D MOVL SPECIFIED_EXTENT, R3 53 D0 00181 16\$: MOVL R3, TEMP 50 D1 00184 CMPL R0, AUTH_EXTENT 03 15 00187 BLEQ 17\$ 55 D0 00186 17\$: MOVL AUTH_EXTENT, R0	0862
		50	JO DO DOIGE ITS. MOVE NO, EXTENT	0847
		56 16 56	A6 3C 00191 18\$: MOVZWL 22(R6), R6 57 C2 00195 SUBL2 R7, R6 56 D6 00198 INCL R6	0869
	29 00	53	56 DO 0019A MOVL R6, SPECIFIED_EXTENT 56 DO 0019E MOVL R6, EXTENT 04 E1 001A1 198: BBC #4, FLAGS, 22\$	0888
	29 00 0F 00 1F 00 1F 00	AE AE AE AE 50	04 18 0017B AE DO 0017D S3 DO 00181 16\$: MOVL SPECIFIED_EXTENT, R3 50 D1 00184 CMPL R0, AUTH_EXTENT 03 15 00187 BLEQ 17\$ MOVL AUTH_EXTENT, R0 10 11 0018F BRB 19\$ A6 3C 00191 18\$: MOVZWL 22(R6), R6 56 DO 00198 SUBL2 R7, R6 56 DO 00198 MOVL R6, SPECIFIED_EXTENT 56 DO 00198 MOVL R6, SPECIFIED_EXTENT 56 DO 00198 MOVL R6, SPECIFIED_EXTENT 56 DO 00198 MOVL R6, EXTENT 04 E1 001A1 19\$: BBC #4, FLAGS, 22\$ 03 E0 001A6 BBS #3, FLAGS, 22\$ 04 E1 001AB BBC #4, FLAGS, 22\$ 05 DO 001BA 20\$: MOVL EXTENT, R0 06 DO 001BA 20\$: MOVL EXTENT, R0 07 DO 001C5 21\$: MOVL R0, QUOTA	0889
	15 00	50 52	02 E0 001B5 BBS #2, FLAGS, 22\$ 53 D0 001BA 20\$: MOVL EXTENT, RO 50 D1 001BD CMPL RO, QUOTA	0892
		50 52	03 15 001C0 BLEQ 21\$ 52 DO 001C2 MOVL QUOTA, RO 50 DO 001C5 21\$: MOVL RO, QUOTA	

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					1	E 13 6-Sep-1 4-Sep-1	1984 00:43 1984 12:09	:54 VAX-11 Bliss-32 V4.0-742 :11 [CLIUTL.SRC]SETMISC.B32;1	Page 33 (10)
		54		50 10	D1 001C8		CMPL BGTR	RG LIMIT	: 0893
16	00	AE 50 53		00E32033020340E24303400320300E24038	D1 0001CB 14 0001CDF 10 0001CDF 10 0001CDF 11 0001CDF 11 0001CDF 11 0001CDF 12 0001CDF 12 0001CDF 13 0001CDF 14 0001CDF 15 0001CDF 16 0001CDF 17 0001CDF 18 0001	22\$: 23\$:	CMPL BGTR BRB BBC MOVL CMPL MOVL CMPL BLEQ MOVL BCBC MOVL BRB	#3, FLAGS, 27\$ QUOTA, RO RO, EXTENT	0899 0902
		50 53 50 54		550207	E1 001CF D0 001D4 D1 001D7 18 001DA D0 001DF D0 001E2 D1 001E8 D0 001EA D0 001ED	24\$:	MOVL MOVL MOVL CMPL	EXTENT, RO RO, EXTENT QUOTA, RO RO, LÍMIT 26\$ LIMIT, RO RO, LÍMIT	0903
		50		54	DO 001EA	25\$: 26\$:	MOVL	LIMIT, RO RO, LIMIT	
49	0C 0C	AE		4E 02	11 001F0 E1 001F2	27\$:	BRB BBC	#2. FLAGS. 34\$: 0899 : 0908
23	OC.	AE 50 54		53	E1 001F2 E1 001F7 D0 001FC D1 001FF 15 00202 D0 00204 D0 00207 D1 0020A		BBC BBC MOVL CMPL BLEQ MOVL CMPL BGEQ MOVL MOVL CMPL	M4, FLAGS, 30\$ EXTENT, RO RO, LIMIT	0911
				03	15 00202 00 00204		BLEQ	RO, LIMIT 28\$ LIMIT, RO RO, LIMIT RO, QUOTA	
		50 54 52		50	DO 00207 D1 0020A	28\$:	MOVL	RO, LIMIT RO, QUOTA 29\$	0912
		50		52	DO 0020F	298:	MOVL	QUOTA, RO RO, QUOTA	
		50 52 50 52		53	18 0020D D0 0020F D0 00212 D0 00215 D1 00218 14 0021B		MOVL	EXTENT, RO	0913
10	ОС	AF		1E	14 0021B 11 0021D E1 0021F	30\$:	BGTR BRB BBC	RO, QUÓTA 32\$ 33\$	0010
	•	AE 50 53		54	DO 00224 D1 00227	300.	MOVL	#2, FLAGS, 34\$ LIMIT, RO RO, EXTENT	0919
					18 0022A 00 0022C	710	BGEQ	SIS EXTENT, RO	
		50 53 50 52		54	DO 00232 DO 00232	31\$:	MOVL	LIMIT, RO RO. QUOTA	0923
				03	18 00238 00 0023A	32\$:	BGEQ MOVL	33\$ QUOTA, RO	
	10	50 52 AE AE AE		04	DO 0023D DO 00240	32\$: 33\$: 34\$:	MOVL	RO, QUOTA #4, ARGLIST	0929
	10 14 18 20	AE	0C 10	52 AE	7D 00248 9E 00240		MOVQ MOVAB	QUOTA, ARGLIST+8 FLAGS, ARGLIST+16	0929 0930 0931 0933 0933
		00	00000000v	2555055055AAE05550	9F 00251		PUSHAB	ARGLIST SETWRKKNL	0935
	0000000G	00 58 0A		50	DO 00261		MOVL	RO, STATUS STATUS 35\$	
	0000000G	00		58	DO 00224 DO 00227 DO 00227 DO 00235 DO 00235 DO 00238 DO 00238 DO 00238 DO 00238 DO 00244 7D 00244 7D 00244 7D 00254 FB 00254 FB 00267 FB 00267		MOVL MOVL CMPL BGEQ MOVL MOVL MOVL MOVL MOVAB PUSHAB PUSHAB CALLS MOVL BLBS PUSHL CALLS	LIMIT, RO RO, EXTENT 31\$ EXTENT, RO RO, EXTENT LIMIT, RO RO, QUOTA 33\$ QUOTA, RO RO, QUOTA #4, ARGLIST LIMIT, ARGLIST+4 QUOTA, ARGLIST+8 FLAGS, ARGLIST+16 ARGLIST SETWRKKNL #2, SYS\$CMKRNL RO, STATUS STATUS #1, LIB\$SIGNAL	0938
04	ОС	AE	00	01	04 00270 E1 00271	35\$:	RET BBC	#1 FLAGS 36\$	0937 0947
		AE 1A 54	00	O1 AE 6E OC	E1 00271 E8 00276 D1 0027A 12 0027D	36\$:	BLBS CMPL BNEQ	#1, FLAGS, 36\$ FLÁGS, 38\$ SPECIFIED_LIMIT, LIMIT 37\$	0948

SETMISC VO4-000			F 13 16-Sep-1984 00:43:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:11 [CLIUTL.SRC]SETMISC.B32;1	Page 34
		52 04 53 08	AE D1 0027F CMPL SPECIFIED_QUOTA, QUOTA 06 12 00283 BNEQ 37\$ AE D1 00285 CMPL SPECIFIED_EXTENT, EXTENT	: 0949 : 0950
	04 OC	AE 13 OC	1C 13 00289 01 E1 0028B 37\$: BBC #1, FLAGS, 38\$ AE E9 00290 BLBC FLAGS, 39\$ 0C BB 00294 38\$: PUSHR #^M <r2,r3> 54 DD 00296 PUSHL LIMIT 03 DD 00298 PUSHL #3 BE DD 0029A PUSHL #SET\$ NEW IMS</r2,r3>	0951
	0000000G	00 00000000	AE D1 0027F 06 12 00283 AE D1 00285 CMPL SPECIFIED_QUOTA, QUOTA BNEQ 37\$ CMPL SPECIFIED_EXTENT, EXTENT SPECIFIED_EXTENT, EXTENT SPECIFIED_EXTENT, EXTENT SPECIFIED_EXTENT, EXTENT SPECIFIED_EXTENT, EXTENT SPECIFIED_COUNTA SPECIFIED_QUOTA, QUOTA OVER SPECIFIED_QUOTA, QUOTA SPECIFIED_QUOTA, QUOTA SPECIFIED_COUNTA SPECIFIED_COUN	0954 0953 0952

; Routine Size: 680 bytes, Routine Base: \$CODE\$ + 04BE

```
6 13
16-Sep-1984 00:43:54
14-Sep-1984 12:09:11
SETMISC
VO4-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1
   ROUTINE setwrkknl (limit, quota, extent, flags) =
BEGIN
                                     !++
                                        This is the kernel mode routine that actually sets the working set parameters
                                        Inputs:
                         LIMIT - address of ws limit
                                                 QUOTA - address of ws quota
                                                 EXTENT - address of ws extent FLAGS - address of flags longword
                                        Outputs:
                                                 None. The working set parameters are reset.
                                     MAP flags : REF $BBLOCK;
                                           phd = .ctl$gl_phd : $BBLOCK;
                                                                                                             ! Point to this process's PHD
                                       Set the values. Note that all these values are biased by the working set list minus one. Memory management is the sort of thing that causes one to long for the days of the abacus.
                                     phd[phd$w_dfwscnt] = .phd[phd$w_wslist] - 1 + .limit;
phd[phd$w_wsquota] = .phd[phd$w_wslist] - 1 + .quota;
                                     phd[phd$w_wsextent] = .phd[phd$w_wslist] - 1 + .extent;
                                        If the ADJUST qualifier was specified, do it.
                                     If .flags[set$v_expadj]
                                     THEN
                                           BEGIN
                                          pcb = .ctl$gl_pcb : $BBLOCK;
pcb[pcb$v_disaws] = NOT .flags[set$v_adjust];
END;
                                           BIND
                         1001
                                     RETURN 1;
   1012
                                    END:
                                                                                   0000 00000 SETWRKKNL:
                                                                                                                           Save nothing
CTL$GL_PHD, RO
8(RO), R1
LIMIT, R1
#1, R1, 26(RO)
8(RO), R1
QUOTA, R1
                                                                                                                                                                                                 0959
0979
0986
                                                                                                                 . WORD
                                                                                00
A0
AC
01
                                                                                           00002
00009
0000D
00011
00016
                                                                                                                MOVL
MOVZWL
ADDL2
SUBW3
                                                                0000000G
                                                           50
51
51
51
51
                                                                                      DO CO3
                                                                         08
                               14
```

0001A

MOVZWL ADDL2

0987

SETMISC VO4-000								H 13 16-Se 14-Se	p-1984 00:43 p-1984 12:09	:54	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1		Page 36
		18	AO		51 51 00 51	01 A0	A3 00	01E	SUBW3 MOVZWL	#1, R1 8(RO) EXTENT	, 24(RO) R1		: 0988
		16	A0 16	10	51 BC	01 05	A3 00 E1 00	027 028 030	SUBW3 BBC	#1, R1	, 22(R0)		0993
	51	10	BC		50 00000000G	00 06	DO 00 EF 00	035 03C	MOVL	#6, #1	, afLAGS, R1		0993 0997 0998
27	AO		01		90 50	51	FO 00 DO 00 04 00	045 04B 1\$:	SUBW3 MOVZWL ADDL2 SUBW3 BBC MOVL EXTZV MCOML INSV MOVL RET	R1. #0 #1. R0	PCB, RO , afLAGS, R1 , #1, 39(RO)	p.s.	1001
Routine	Size:	79 byte	es,	Routine	Base: \$CODE\$	+ 07	66						

SETMISC VO4-000 VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETMISC.B32;1 : 1014 1 END 0 ELUDOM .EXTRN LIB\$SIGNAL, LIB\$STOP PSECT SUMMARY Name Bytes Attributes SPLITS SCODES NOVEC, NOWRT, RD , NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) Library Statistics ----- Symbols -----Pages Processing File Total Loaded Percent Mapped Time \$255\$DUA28:[SYSLIB]LIB.L32;1 18619 1000 00:01.8 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:SETMISC/OBJ=OBJ\$:SETMISC MSRC\$:SETMISC/UPDATE=(ENH\$:SETMISC) ; Size: 1973 code ; Run Time: 00:31.9 ; Elapsed Time: 01:46.2 ; Lines/CPU Min: 1886 ; Lexemes/CPU-Min: 18037 ; Memory Used: 217 pages ; Compilation Complete 1973 code + 560 data bytes 00:31.9 01:46.2

0053 AH-BT13A-SE

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